

**What is claimed is:**

1. A mobile communications system in a fixed wireless telephone network, which is configured by at least a fixed network local exchange, a wireless base station controller subordinate to the fixed network local exchange, and a plurality of wireless base station transceiver subsystems subordinate to the wireless base station controller, comprising
- an inter-controller SW unit relaying voice data and control information, which are exchanged between the wireless base station controller and the plurality of wireless base station transceiver subsystems, between an arbitrary wireless base station controller and an arbitrary wireless base station transceiver subsystem.
2. The mobile communications system according to claim 1, wherein
- said inter-controller SW unit transfers the voice data and the control information, which are transmitted from the wireless base station controller to the plurality of wireless base station transceiver subsystems, with a broadcast communication.

3. The mobile communications system according to claim 1, wherein

said inter-controller SW device determines a routing method for the voice data based on the received control information.

4. The mobile communications system according to claim 1, wherein

the wireless base station controller generates control information based on an identifier of a base station transceiver subsystem to which a mobile station belongs, and/or an identifier of the mobile station, and transmits generated control information to said inter-controller SW unit.

5. The mobile communications system according to claim 1 wherein

the wireless base station controller performs hand-off control via said inter-controller SW unit based on voice quality information from a mobile station.

6. The mobile communications system according to claim 1, wherein

a plurality of inter-controller SW units are

connected by an optical communications path.

7. The mobile communications system according to claim 1, wherein

information is exchanged with an ATM  
5 communication between the wireless base station  
controller, the plurality of wireless base station  
transceiver subsystems, and said inter-controller SW  
device.

10           8.     The mobile communications system according  
to claim 7, wherein

voice data is exchanged with a composite cell.

9. A mobile communications method for use in  
15 a fixed wireless telephone network, which is configured  
by at least a fixed network local exchange, a wireless  
base station controller subordinate to the fixed network  
local exchange, and a plurality of wireless base station  
transceiver subsystems subordinate to the wireless base  
20 station controller, comprising

(a) relaying voice data and control information, which are exchanged between the wireless base station controller and the plurality of wireless base station transceiver subsystems, between an arbitrary wireless

25 base station controller and an arbitrary base station

transceiver subsystem.

10. The mobile communications method according to claim 9, wherein

5 voice data and control information, which are transmitted from the wireless base station controller, are transferred to the plurality of wireless base station transceiver subsystems, with a broadcast communication in the step (a).

10

11. The mobile communications method according to claim 9, wherein

15 a routing method for voice data is determined based on the received control information in the step (a).

12. The mobile communications method according to claim 9, wherein

20 the wireless base station controller generates control information based on an identifier of a base station transceiver subsystem to which a mobile station belongs, and/or an identifier of the mobile station, and transmits generated control information via step (a).

25

13. The mobile communications method according to claim 9, wherein

the wireless base station controller performs  
hand-off control based on voice quality information from  
5 a mobile station via the step (a).

$\frac{1}{\sqrt{\pi}} \int_{-\infty}^{\infty} f(x) e^{-x^2} dx = \frac{1}{\sqrt{\pi}} \int_{-\infty}^{\infty} f(x) e^{-x^2} dx$